SEQUENCE LISTING   #11

<110> Genzyme Corporation
       Shankara, Srinivas
       Nicolette, Charles

<120> ANTIGENIC PEPTIDE CONCATOMERS

<130> GA0197C

<140> US 09/928,213
<141> 2001-08-10

<150> PCT/US00/03655
<151> 2000-02-10

<150> 60/120,002
<151> 1999-02-11

<150> 60/161,845
<151> 1999-10-27

<160> 33

<170> PatentIn version 3.1

<210> 1
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 1

Tyr Asn Leu Lys Trp Asn Tyr Asn Leu Lys Trp Asn Tyr Asn Leu Lys
1   5   10   15

Trp Asn

<210> 2
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 2

Pro Asp Asp Tyr Gly Gly Pro Asp Asp Tyr Gly Gly Pro Asp Asp Tyr
1   5   10   15

Gly Gly

<210> 3
<211> 18
<212> PRT

<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 3

Val Lys Lys Ile His Ile Val Lys Lys Ile His Ile Val Lys Lys Ile
1   5   10   15

His Ile

<210> 4
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 4

Lys Trp Asn Pro Asp Asp Lys Trp Asn Pro Asp Asp Lys Trp Asn Pro
1   5   10   15

Asp Asp Tyr

<210> 5
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 5

Tyr Gly Gly Val Lys Lys Tyr Gly Gly Val Lys Lys Tyr Gly Gly Val
1   5   10   15

Lys Lys

<210> 6
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 6

Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Trp Asn Pro Asp Asp Tyr
1   5   10   15

Gly Gly Val Lys
          20

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 7
attactgacc aggtacctttt ctccgtg   27

<210> 8
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 8
tggtcagtaa tcacggagaa aggtacct   28

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 9
ggccgatatc atgattactg accaggtacc   30

<210> 10
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 10
ggccactagt gatcacggag aaaggtacct   30

<210> 11
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 11
attactgacc aggtacctttt ctccgtg   27

<210> 12

```
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   gp100-209 epitope concatomer

<400>   12
cacggagaaa ggtacctggt cagtaat                                              27


<210>   13
<211>   107
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   gp209 epitope construct

<400>   13
aattcccacc atggcggccg caattactga ccaagtacct ttctccgtgg ctgcagctgc    60

tgctggtatt ggtattttaa ctgtggccgc ggcttaatta atttaac                 107


<210>   14
<211>   113
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   alpha-globin stability element

<400>   14
taagctggag cctcggtagc cgttcctcct gcccgctggg cctcccaacg ggccctcctc    60

ccctccttgc accggccttc ctggtctttg aataaagtct gagtgggcgg cct          113


<210>   15
<211>   400
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   9 copy recombinant concatomer

<220>
<221>   misc_feature
<222>   (45)..(45)
<223>   n is any nucleic acid


<220>
<221>   misc_feature
<222>   (61)..(61)
<223>   n = adenine


<220>
<221>   misc_feature
<222>   (72)..(72)
<223>   n is any nucleic acid
```

```
<220>
<221>  misc_feature
<222>  (88)..(88)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (99)..(99)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (115)..(115)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (126)..(126)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (142)..(142)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (153)..(153)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (169)..(169)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (180)..(180)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (196)..(196)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (207)..(207)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (223)..(223)
<223>  n = adenine
```

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is any nucleic acid

<400> 15
atgattactg accaggtacc tttctccgtg attactgacc aggtnccttt ctccgtgatt   60

nctgaccagg tnccttctc cgtgattnct gaccaggtnc ctttctccgt gattnctgac   120

caggtnccttt tctccgtgat tnctgaccag gtnccttttct ccgtgattnc tgaccaggtn   180

cctttctccg tgattnctga ccaggtncct ttctccgtga ttnctgacca ggtnccttc   240

tccgtgtaaa ctagagggcc ctattctata gtgtcaccta aatgctagag ctcgctgatc   300

agcctcgact gtgccttcta gttgccagcc atctgttgtt tgcccctccc cgtgccttc   360

cttgaccctg gaaggtgccn ctcccactgt cctttcctaa   400

<210> 16
<211> 27
<212> DNA
<213> Artificial

<220>
<223> jmpl str

<220>
<221> misc_feature
<223> jmpl str

<400> 16
attactgacc aggtaccttt ctccgtg   27

<210> 17
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> 9 copy recombinant concatomer

<400> 17
attactgacc aggtaccttt ctccgtg   27

<210> 18
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> jmpl str

```
<400>  18
attactgacc aggtaccttt ctccgtg                                              27


<210>  19
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  19
attactgacc aggtnccttt ctccgtg                                              27


<210>  20
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  jmpl str

<400>  20
attactgacc aggtaccttt ctccgtg                                              27


<210>  21
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  21
attnctgacc aggtnccttt ctccgtg                                              27


<210>  22
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
```

<223> jmpl str

<400> 22
attactgacc aggtaccttt ctccgtg   27

<210> 23
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> 9 copy recombinant concatomer

<220>
<221> misc_feature
<222> (4)..(4)
<223> n = adenine

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is any nucleic acid

<400> 23
attnctgacc aggtnccttt ctccgtg   27

<210> 24
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> jmpl str

<400> 24
attactgacc aggtaccttt ctccgtg   27

<210> 25
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> 9 copy recombinant concatomer

<220>
<221> misc_feature
<222> (4)..(4)
<223> n = adenine

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is any nucleic acid

<400> 25
attnctgacc aggtnccttt ctccgtg   27

```
<210>   26
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   jmpl str

<400>   26
attactgacc aggtaccttt ctccgtg                                               27


<210>   27
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   9 copy recombinant concatomer

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n = adenine


<220>
<221>   misc_feature
<222>   (15)..(15)
<223>   n is any nucleic acid


<400>   27
attnctgacc aggtnccttt ctccgtg                                               27


<210>   28
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   jmpl str

<400>   28
attactgacc aggtaccttt ctccgtg                                               27


<210>   29
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   9 copy recombinant concatomer

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n = adenine


<220>
<221>   misc_feature
```

```
<222>   (15)..(15)
<223>   n is any nucleic acid


<400>   29
attnctgacc aggtncettt ctccgtg                                        27


<210>   30
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   jmpl str

<400>   30
attactgacc aggtacettt ctccgtg                                        27


<210>   31
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   9 copy recombinant concatomer

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n = adenine


<220>
<221>   misc_feature
<222>   (15)..(15)
<223>   n is any nucleic acid


<400>   31
attnctgacc aggtncettt ctccgtg                                        27


<210>   32
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   jmpl str

<400>   32
attactgacc aggtacettt ctccgtg                                        27


<210>   33
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   9 copy recombinant concatomer

<220>
```

```
<221>  misc_feature
<222>  (4)..(4)
<223>  n = adenine


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  33
attnctgacc aggtnccttt ctccgtg                                      27
```